

## Gaging Stations

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06600000	Perry Creek at 38th Street, Sioux City, IA . . . . .	393
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06600500	Floyd River at James, IA . . . . .	397
06601200	Missouri River at Decatur, NE . . . . .	399
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06601480	Big Whiskey Slough near Remsen, IA . . . . .	492
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## MISSOURI RIVER MAIN STEM

## 06486000 MISSOURI RIVER AT SIOUX CITY, IA

LOCATION.--Lat. 42°29'09", long 96°24'49", in NW<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> sec.16, T.29 N., R.9 E., sixth principal meridian, Dakota County, Nebraska, Hydrologic Unit 10230001, on right bank on upstream side of bridge on U.S. Highway 20 and 77 at South Sioux City, Nebraska, 1.9 mi downstream from Big Sioux River, and at mile 732.2.

DRAINAGE.--314,600 mi<sup>2</sup>, approximately. The 3,959 mi<sup>2</sup> in Great Divide basin are not included.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1897 to current year in reports of the U.S. Geological Survey. Prior to October 1928 and October 1931 to September 1938, monthly discharges only, published in WSP 1310. January 1879 to December 1890, monthly discharges only, in House Document 238, 73rd Congress, 2d session, Missouri River. Gage height records collected in this vicinity September 1878 to December 1899 are contained in reports of Missouri River Commission and since July 1889 are contained in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 716: 1929-30. WSP 876: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,056.98 ft above NGVD of 1929. Sept. 2, 1878 to Dec. 31, 1905, nonrecording gages at various locations within 1.7 mi of present site and at various datums. Jan. 1, 1906 to Feb. 14, 1935, nonrecording gage, and Feb. 15, 1935 to Sept. 30, 1969, water-stage recorder at site 227 ft downstream at datum 19.98 ft higher, and Oct. 1, 1969 to Sept. 30, 1970 at datum 20.00 ft higher. Oct. 1, 1970 to Jan. 30, 1981, water-stage recorder at site 227 ft downstream at present datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by upstream main-stem reservoirs. Fort Randall Dam was completed in July 1952, with storage beginning in December 1952. Gavins Point Dam was completed in July 1955, with storage beginning in December 1955. U.S. Army Corps of Engineers rain gage and data collection platform with satellite telemetry at station. Precipitation records are available online at the U.S. Army Corps of Engineers website: [www2.mvr.usace.army.mil/WaterControl/datamining2.cfm](http://www2.mvr.usace.army.mil/WaterControl/datamining2.cfm).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 441,000 ft<sup>3</sup>/s Apr. 14, 1952, gage height, 24.28 ft, datum then in use; minimum, 2,500 ft<sup>3</sup>/s Dec. 29, 1941; minimum gage height, 7.02 ft Jan. 19, 1996.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27,800	28,600	13,800	15,700	16,200	16,000	21,100	24,200	33,700	29,600	26,600	26,800
2	27,900	29,400	13,700	15,900	17,600	16,700	20,600	27,000	37,500	29,900	26,700	27,200
3	28,000	29,700	13,700	15,800	17,600	17,900	20,500	28,100	36,200	31,900	26,800	27,500
4	28,000	29,800	13,600	14,800	15,900	18,700	21,100	27,900	35,200	31,600	27,200	27,900
5	28,100	29,400	13,400	14,600	15,200	19,100	21,200	27,900	37,200	31,700	27,100	28,300
6	28,100	29,100	13,100	12,700	16,400	17,100	21,300	28,100	37,900	31,600	27,200	28,300
7	28,000	28,800	13,000	14,100	15,400	16,300	22,400	27,900	36,900	32,400	28,200	27,700
8	28,000	28,800	13,100	15,100	14,600	15,500	23,200	28,100	36,200	33,100	28,300	27,800
9	28,700	29,000	13,600	16,300	15,400	14,400	22,800	30,600	35,400	33,900	28,100	28,500
10	28,900	29,000	13,000	15,900	16,000	13,200	23,000	30,600	34,800	33,400	27,900	28,700
11	29,200	29,200	12,500	15,800	15,700	12,800	23,700	29,400	34,900	32,200	27,800	28,800
12	29,100	29,400	14,000	16,200	15,100	12,300	23,700	30,500	34,400	31,400	27,600	29,000
13	28,400	29,000	15,200	16,200	13,900	12,000	23,500	29,900	34,100	31,000	27,500	29,000
14	28,400	28,900	15,900	15,100	15,200	13,000	23,300	27,700	34,700	30,700	27,200	31,800
15	28,300	29,200	16,100	14,600	14,900	13,300	23,500	30,400	34,500	30,300	26,900	33,400
16	27,800	29,100	16,000	13,800	13,800	13,300	23,900	28,700	34,800	29,200	26,900	33,400
17	27,800	29,200	15,500	13,800	13,800	12,900	23,800	27,300	34,200	28,800	26,800	31,700
18	27,800	29,000	16,500	14,700	13,700	12,700	24,200	30,400	34,100	28,500	27,200	29,500
19	28,200	25,800	15,900	14,300	13,800	12,700	25,000	28,300	35,800	28,300	27,000	27,600
20	28,500	22,100	14,500	14,700	13,600	14,100	24,700	26,600	35,600	28,100	26,600	26,400
21	28,500	20,200	14,300	15,500	12,900	17,100	25,500	31,000	34,300	28,200	26,600	25,700
22	28,400	17,600	13,500	15,400	13,200	18,800	25,300	34,000	32,900	28,200	26,500	24,500
23	28,400	15,500	13,400	16,800	13,300	20,200	25,500	32,300	31,900	27,700	26,800	24,700
24	28,400	14,000	13,200	18,100	12,400	20,200	25,400	35,800	31,400	27,300	27,100	24,700
25	28,400	13,600	13,300	16,400	11,900	21,000	25,300	34,100	30,900	27,300	27,100	24,800
26	28,300	13,700	13,600	16,900	11,500	22,700	24,700	30,800	30,200	27,300	27,000	24,800
27	28,400	13,800	15,400	14,500	11,700	23,400	23,400	33,900	29,900	27,200	26,900	24,100
28	28,700	13,600	16,000	11,800	12,900	24,400	21,900	31,300	29,700	27,200	27,000	23,400
29	28,300	13,400	15,700	14,300	14,100	24,300	22,600	29,200	29,500	27,200	26,700	23,100
30	28,300	13,800	15,500	15,400	---	23,800	22,800	35,400	29,500	27,000	26,800	23,000
31	28,400	---	15,600	15,700	---	22,200	---	35,900	---	26,700	26,600	---
TOTAL	877,500	721,700	445,600	470,900	417,700	532,100	698,900	933,300	1,018,300	918,900	840,700	822,100
MEAN	28,310	24,060	14,370	15,190	14,400	17,160	23,300	30,110	33,940	29,640	27,120	27,400
MAX	29,200	29,800	16,500	18,100	17,600	24,400	25,500	35,900	37,900	33,900	28,300	33,400
MIN	27,800	13,400	12,500	11,800	11,500	12,000	20,500	24,200	29,500	26,700	26,500	23,000
AC-FT	1,741,000	1,431,000	883,800	934,000	828,500	1,055,000	1,386,000	1,851,000	2,020,000	1,823,000	1,668,000	1,631,000
CFSM	0.09	0.08	0.05	0.05	0.05	0.05	0.07	0.10	0.11	0.09	0.09	0.09
IN.	0.10	0.09	0.05	0.06	0.05	0.06	0.08	0.11	0.12	0.11	0.10	0.10

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2004, BY WATER YEAR (WY)

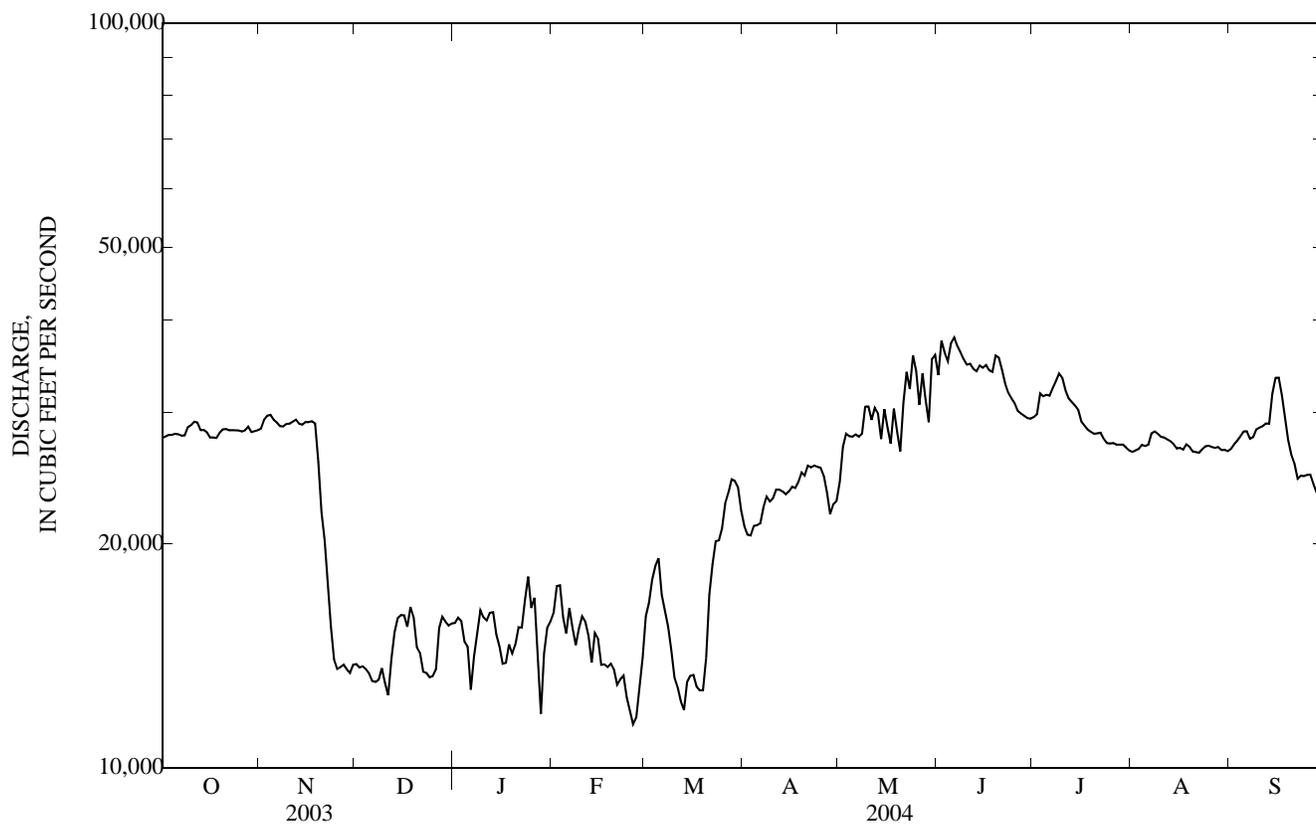
MEAN	35,920	31,120	18,740	16,090	17,160	23,090	33,060	33,730	35,380	35,810	36,070	36,390
MAX	69,300	71,600	39,880	27,720	31,120	47,020	88,040	78,720	66,400	65,550	65,360	66,400
(WY)	(1998)	(1998)	(1998)	(1987)	(1997)	(1997)	(1997)	(1997)	(1997)	(1997)	(1997)	(1997)
MIN	14,350	6,951	8,271	7,316	6,293	9,135	17,450	23,820	23,270	26,380	24,270	25,790
(WY)	(1962)	(1962)	(1962)	(1964)	(1963)	(1957)	(1957)	(1962)	(1960)	(2002)	(1993)	(1962)

06486000 MISSOURI RIVER AT SIOUX CITY, IA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1953 - 2004 a	
ANNUAL TOTAL	8,568,800		8,697,700			
ANNUAL MEAN	23,480		23,760		29,420	
HIGHEST ANNUAL MEAN					55,890 1997	
LOWEST ANNUAL MEAN					19,770 1957	
HIGHEST DAILY MEAN	35,000	Sep 11	37,900	Jun 6	105,000	Jun 25, 1953
LOWEST DAILY MEAN	10,100	Feb 25	11,500	Feb 26	3,000	Dec 11, 1961
ANNUAL SEVEN-DAY MINIMUM	12,800	Mar 5	12,400	Feb 21	5,430	Feb 22, 1963
MAXIMUM PEAK FLOW			39,200	May 30 b	101,000	Apr 3, 1960
MAXIMUM PEAK STAGE			18.30	Jun 2	30.65	Feb 19, 1971
INSTANTANEOUS LOW FLOW			10,700	Jan 28		
ANNUAL RUNOFF (AC-FT)	17,000,000		17,250,000		21,310,000	
ANNUAL RUNOFF (CFSM)	0.075		0.076		0.094	
ANNUAL RUNOFF (INCHES)	1.01		1.03		1.27	
10 PERCENT EXCEEDS	29,600		32,000		46,000	
50 PERCENT EXCEEDS	26,300		26,700		29,800	
90 PERCENT EXCEEDS	13,700		13,600		12,200	

a Post regulation.

b Also June 2.



## WATER-QUALITY RECORDS

LOCATION.--Samples collected from U.S. Highway 20 and 77 bridge in South Sioux City.

PERIOD OF RECORD.--October 1971 to September 30, 2000; October 1, 2003 to September 30, 2004. Daily sediment loads for October 1954 to September 1971 are in reports of U.S. Army Corps of Engineers.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1972 to September 1976, November 1977 to September 1981, October 1991 to September 30, 2000, October 1, 2003 to September 30, 2004.

WATER TEMPERATURES: October 1971 to September 1976, November 1977 to September 1981, October 1991 to September 30, 2000, October 1, 2003 to September 30, 2004.

SUSPENDED-SEDIMENT DISCHARGE: October 1971 to September 1976, October 1991 to September 30, 2000, October 1, 2003 to September 30, 2004.

REMARKS.--Records of specific conductance are obtained from suspended-sediment samples at time of analysis.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 985 microsiemens Apr. 19, 1999; minimum daily, 410 microsiemens Mar. 22, 1978.

WATER TEMPERATURES: Maximum daily, 28.0°C July 30, 1976, Aug. 7, 1979, July 28, 1997, and July 22, 2004; minimum daily, 0.0°C on many days during winter period.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,420 mg/L May 18, 2000; minimum daily mean, 41 mg/L Dec. 6, 7, 2003.

SEDIMENT LOADS: Maximum daily, 370,000 tons July 17, 1996; minimum daily, 1,440 tons Dec. 7, 2003.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 799 microsiemens Nov. 24; minimum daily, 648 microsiemens Mar. 22.

WATER TEMPERATURES: Maximum daily, 28.0°C July 22; minimum daily, 1.0°C Dec. 15, Jan. 12.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 906 mg/L Mar. 3; minimum daily mean, 41 mg/L Dec. 6, 7.

SEDIMENT LOADS: Maximum daily, 54,600 tons May 27; minimum daily, 1,440 tons Dec. 7.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Bed sediment, dry svd <.063mm (80164)	Bed sediment, dry svd <.125mm (80165)	Bed sediment, dry svd <.25mm (80166)	Bed sediment, dry svd <.5 mm (80167)	Bed sediment, dry svd <1 mm (80168)	Bed sediment, dry svd <2 mm (80169)	Bed sediment, dry svd <4 mm (80170)	Bed sediment, dry svd <8 mm (80171)	Bed sediment, dry svd <16 mm (80172)	Number of sampling points, count (00063)
OCT											
10...	1320	.0	.0	9	70	97	99	100	100	--	3
NOV											
14...	1230	.0	.0	12	77	97	100	100	--	--	3
DEC											
22...	1040	.0	.0	12	67	89	95	99	100	--	3
JAN											
12...	1120	.0	.0	9	69	93	97	98	100	100	3
FEB											
18...	1130	.0	.0	4	67	95	98	99	99	100	3
MAR											
02...	1210	.0	.0	2	60	93	99	100	100	--	3
APR											
05...	1110	.0	.0	12	87	100	100	--	--	--	3
MAY											
03...	1040	.0	.0	14	81	99	100	100	--	--	3
JUN											
03...	1210	.0	.0	6	74	97	99	99	100	100	3
JUL											
09...	1000	.0	.0	12	78	97	99	100	100	--	3
AUG											
06...	1005	.0	.0	14	80	97	99	100	100	--	3